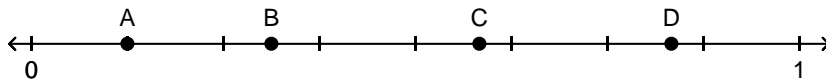


Fractions HW1**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Which fraction is greater than $\frac{2}{5}$?
- a. $\frac{1}{5}$ b. $\frac{5}{10}$ c. $\frac{4}{10}$ d. $\frac{1}{10}$
- _____ 2. Which fraction is greater, $\frac{5}{7}$ or $\frac{1}{2}$?
- a. $\frac{5}{7} > \frac{1}{2}$ c. $\frac{5}{7} < \frac{1}{2}$
- b. $\frac{5}{7} = \frac{1}{2}$ d. cannot be determined
- _____ 3. Order these fractions from least to greatest. $\frac{13}{16}, \frac{31}{80}, \frac{11}{20}$
- a. $\frac{31}{80} < \frac{13}{16} < \frac{11}{20}$ c. $\frac{11}{20} < \frac{31}{80} < \frac{13}{16}$
- b. $\frac{31}{80} < \frac{11}{20} < \frac{13}{16}$ d. $\frac{13}{16} < \frac{11}{20} < \frac{31}{80}$
- _____ 4. Match each point on the number line with one of these fractions: $\frac{5}{6}, \frac{7}{12}, \frac{1}{8}, \frac{5}{16}$



- a. $A = \frac{5}{16}, B = \frac{1}{8}, C = \frac{7}{12}, D = \frac{5}{6}$ c. $A = \frac{7}{12}, B = \frac{5}{6}, C = \frac{5}{16}, D = \frac{1}{8}$
- b. $A = \frac{1}{8}, B = \frac{5}{16}, C = \frac{7}{12}, D = \frac{5}{6}$ d. $A = \frac{5}{6}, B = \frac{5}{16}, C = \frac{7}{12}, D = \frac{1}{8}$
- _____ 5. Order these fractions from least to greatest. $\frac{4}{7}, \frac{1}{5}, \frac{2}{3}$
- a. $\frac{4}{7} < \frac{2}{3} < \frac{1}{5}$ c. $\frac{1}{5} < \frac{2}{3} < \frac{4}{7}$
- b. $\frac{1}{5} < \frac{4}{7} < \frac{2}{3}$ d. $\frac{2}{3} < \frac{1}{5} < \frac{4}{7}$

Short Answer

- _____ 6. Order these fractions from least to greatest. $\frac{4}{3}, \frac{5}{4}, \frac{6}{5}$

Name: _____

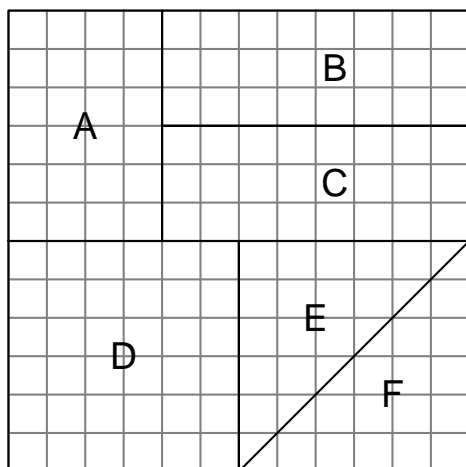
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7. Find a fraction halfway between $\frac{9}{8}$ and $\frac{10}{8}$.

Then write another fraction halfway between this fraction and $\frac{10}{8}$.

Problem

8. Write as many proper fractions as you can using the digits 3, 5, 7, and 11.
List those fractions that are less than $\frac{1}{2}$ and order them from least to greatest.
9. a) What fraction of the square is covered by each of the regions A to F?
b) Which 3 regions combined will cover less than $\frac{1}{2}$ the square? List all possibilities.



Fractions HW1

Answer Section

MULTIPLE CHOICE

- | | | |
|-----------|----------------------------------|---|
| 1. ANS: B | DIF: Easy | REF: 4.1 Comparing and Ordering Fractions |
| LOC: 8m13 | TOP: Number Sense and Numeration | KEY: Knowledge and Understanding |
| 2. ANS: A | DIF: Easy | REF: 4.1 Comparing and Ordering Fractions |
| LOC: 8m13 | TOP: Number Sense and Numeration | KEY: Knowledge and Understanding |
| 3. ANS: B | DIF: Moderate | REF: 4.1 Comparing and Ordering Fractions |
| LOC: 8m13 | TOP: Number Sense and Numeration | KEY: Knowledge and Understanding |
| 4. ANS: B | DIF: Moderate | REF: 4.1 Comparing and Ordering Fractions |
| LOC: 8m13 | TOP: Number Sense and Numeration | KEY: Knowledge and Understanding |
| 5. ANS: B | DIF: Moderate | REF: 4.1 Comparing and Ordering Fractions |
| LOC: 8m13 | TOP: Number Sense and Numeration | KEY: Knowledge and Understanding |

SHORT ANSWER

6. ANS:
 $\frac{6}{5}, \frac{5}{4}, \frac{4}{3}$
- DIF: Moderate REF: 4.1 Comparing and Ordering Fractions
 LOC: 8m13 TOP: Number Sense and Numeration KEY: Knowledge and Understanding
7. ANS:
 $\frac{19}{16}, \frac{39}{32}$
- DIF: Moderate REF: 4.1 Comparing and Ordering Fractions
 LOC: 8m13 TOP: Number Sense and Numeration KEY: Thinking

PROBLEM

8. ANS:
 $\frac{3}{5}, \frac{3}{7}, \frac{3}{11}, \frac{5}{7}, \frac{5}{11}, \frac{7}{11}$
 $\frac{3}{7}, \frac{3}{11}$, and $\frac{5}{11}$ are less than $\frac{1}{2}$.
 $\frac{3}{11} < \frac{3}{7} < \frac{5}{11}$
- DIF: Difficult REF: 4.1 Comparing and Ordering Fractions
 LOC: 8m13 TOP: Number Sense and Numeration KEY: Thinking

9. ANS:

a) A, B and C are each $\frac{1}{6}$, D is $\frac{1}{4}$, and E and F are each $\frac{1}{8}$.

b) A + B + E, A + C + E, B + C + E,
A + B + F, A + C + F, B + C + F,
A + E + F, B + E + F, and C + E + F

DIF: Difficult

REF: 4.1 Comparing and Ordering Fractions

LOC: 8m13

TOP: Number Sense and Numeration

KEY: Thinking